

Comparisons of Job Characteristics

Focus Occupation: [Electrical Power-Line Installers and Repairers \(49-9051\)](#)

Associated Occupation: [Electrical and Electronics Repairers, Powerhouse, Substation, and Relay \(49-2095\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 60

Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	17.1	14.0	<	Expanded education and/or training may be required
Design	5.2	13.2	8.0	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	10.9	<	Expanded education and/or training may be required
Computers and Electronics	8.4	12.2	5.7	<<	Extensive education and/or training may be required
Physics	4.3	10.1	5.5	<<	Extensive education and/or training may be required
Telecommunications	3.9	10.0	6.3	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	9.3	9.4	0	Current knowledge level may be sufficient
Building and Construction	4.0	8.4	12.6	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Equipment Maintenance	3.5	11.4	7.9	<<	Extensive development of skills in this area may be required
Repairing	3.4	11.1	9.6	<	A higher skill level may be required

Troubleshooting	4.5	10.7	10.5	0	Current skill level may be sufficient
Quality Control Analysis	5.9	10.2	10.1	0	Current skill level may be sufficient
Operation Monitoring	6.6	10.0	9.8	0	Current skill level may be sufficient
Equipment Selection	3.3	5.6	5.3	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 75			
Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051) Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	10.3	11.1	0	Current ability level may be sufficient
Visualization	7.5	10.1	9.1	<	Some improvement in abilities may be required
Control Precision	6.6	10.0	10.8	0	Current ability level may be sufficient
Selective Attention	8.7	10.0	9.3	0	Current ability level may be sufficient
Finger Dexterity	7.6	9.8	10.1	0	Current ability level may be sufficient
Manual Dexterity	6.5	9.4	10.8	>	Current ability level is likely sufficient
Visual Color Discrimination	6.4	9.3	8.5	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 77
Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051) Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)		
Work Activities	Exclusivity of Activity	
Analyze operation of malfunctioning electrical or electronic equipment	68	
Distinguish colors	44	
Fabricate, assemble, or disassemble manufactured products by hand	11	
Install/connect electrical equipment to power circuit	57	
Read blueprints	10	
Read schematics	34	
Read tape measure	41	
Read technical drawings	7	
Repair or replace electrical wiring, circuits, fixtures, or equipment	49	
Solder electrical or electronic connections or components	55	
Test electrical/electronic wiring, equipment, systems or fixtures	54	
Use electrical or electronic test devices or equipment	40	
Use hand or power tools	2	

Use high voltage apparatus	76
Use measuring devices in construction or extraction work	41
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Electrical Power-Line Installers and Repairers (49-9051)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.